INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/051437

			
A. CLASSII IPC 7	FICATION OF SUBJECT MATTER F27D3/18 F27B3/22 C21C5/5	2	
According to	International Patent Classification (IPC) or to both national classific	cation and IPC	
B. FIELDS	SEARCHED		
Minimum do IPC 7	cumentation searched (dassification system followed by classificat F27D F27B C21C	tion symbols)	
Documentat	ion searched other than minimum documentation to the extent that	such documents are included in the fields so	earched
1	ata base consulted during the international search (name of data b ternal, WPI Data, PAJ	ase and, where practical, search terms used	
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
Y	US 2003/000338 A1 (V.G SHVER) 2 January 2003 (2003-01-02) figures 10,11 paragraph '0019! paragraphs '0024! - '0026! paragraph '0035! paragraph '0066! paragraph '0074! paragraph '0096!		1-15
Y	DE 41 23 391 A1 (ELTI S.R.L., S0 23 January 1992 (1992-01-23) column 3, line 14 - line 55 column 4, line 54 - line 61 figures 4-7	OVERE, IT)	1-15
X Furt	her documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
	ategories of cited documents :	'T' later document published after the inte	ernational filing date
'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another diation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the International filing date but later than the priority date claimed 'A' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family			the application but seem underlying the claimed invention to considered to coument is taken atone claimed invention eventive step when the ore other such docu-
	actual completion of the international search	Date of mailing of the international sea 02/03/2005	arch report
24 February 2005 Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Peis, S	

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051437

		PCT/EP2004/051437			
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.			
Ą	US 5 788 921 A (G.M GITMAN) 4 August 1998 (1998-08-04) figures 9-13 column 20, line 38 - column 21, line 57 column 22, line 27 - line 50	1-3,12			
A	US 5 635 130 A (T.J LECZO) 3 June 1997 (1997-06-03) claims; figures figures 17,18	1,7-9			
A	US 2 178 654 A (K STEINBACHER) 7 November 1939 (1939-11-07) figures 1,2	5,6			
A	FR 2 767 840 A (DONZE MICHEL) 5 March 1999 (1999-03-05) claims; figures	1-3			
	FR 2 797 738 A (L'AIR LIQUIDE SA) 23 February 2001 (2001-02-23) figures claims	1-3			

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP2004/051437

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
US 2003000338 A	02-01-2003	US	2001043639 A	.1	22-11-2001
		US	2002001332 A		03-01-2002
		US	6289035 B		11-09-2001
		US	2005005735 A		13-01-2005
		CA	2449774 A		12-12-2002
		WO	02099143 A	.1	12-12-2002
		EP	1413174 A		28-04-2004
		AU	3484401 A	ı	20-08-2001
		EP	1232675 A	i 1	21-08-2002
		WO	0160123 A	.1	16-08-2001
DE 4123391 A	23-01-1992	IT	1242979 B	;	18-05-1994
US 5788921 A	04-08-1998	US	5714113 A		03-02-1998
		US	5599375 A		O4-02-1997
		US	5904895 A		18-05-1999
		US	5858302 A		12-01-1999
		US	5954855 A		21-09-1999
		US	5843368 A		01-12-1998
		AU	3500995 A		22-03-1996
		CA	2198901 A		07-03-1996
		DE	69524233 D		10-01-2002
		DE	69524233 T		23-05-2002
		EP	1123982 A		16-08-2001
		EP	0777751 A		1 1-06-1997
		WO	9606954 A	₹1 	07-03-1996
US 5635130 A	03-06-1997	AT	195765 T		15-09-2000
		CA	2222750 A		19-12-1996
		DE	69609970 D		28-09-2000
		DE	69609970 T		04-01-2001
		EP	0832305 A		O1-04-1998 1 6-12-2000
		ES	2151174 T		
		JP	10510325 T		06-10-1998
		JP	3604698 B		22-12-2004
		WO	9641028 A		19- 12-1996
US 2178654 A	07-11-1939	NONE			
FR 2767840 A	05-03-1999	FR	2767840 A		O5-03-1999
		AU	9079098 A		22-03-1999
ے در اور در اور اور اور اور اور اور اور اور اور او		WO	9911827 A		11-03-1999
	23-02-2001	FR	2797738 A		23-02-2001